

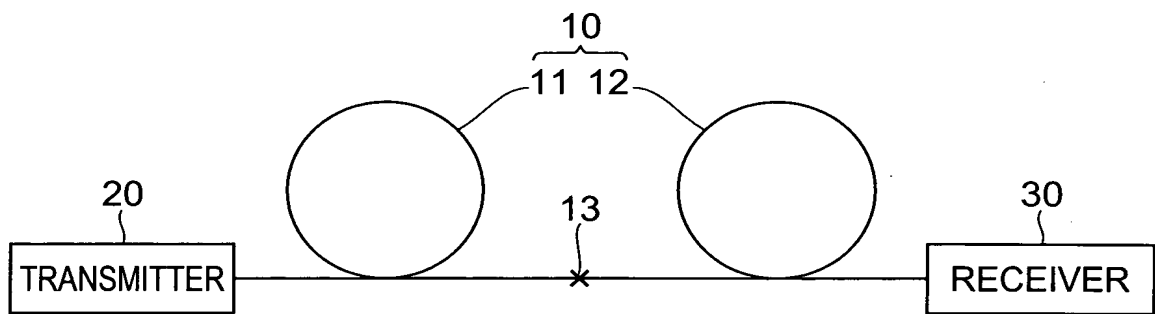
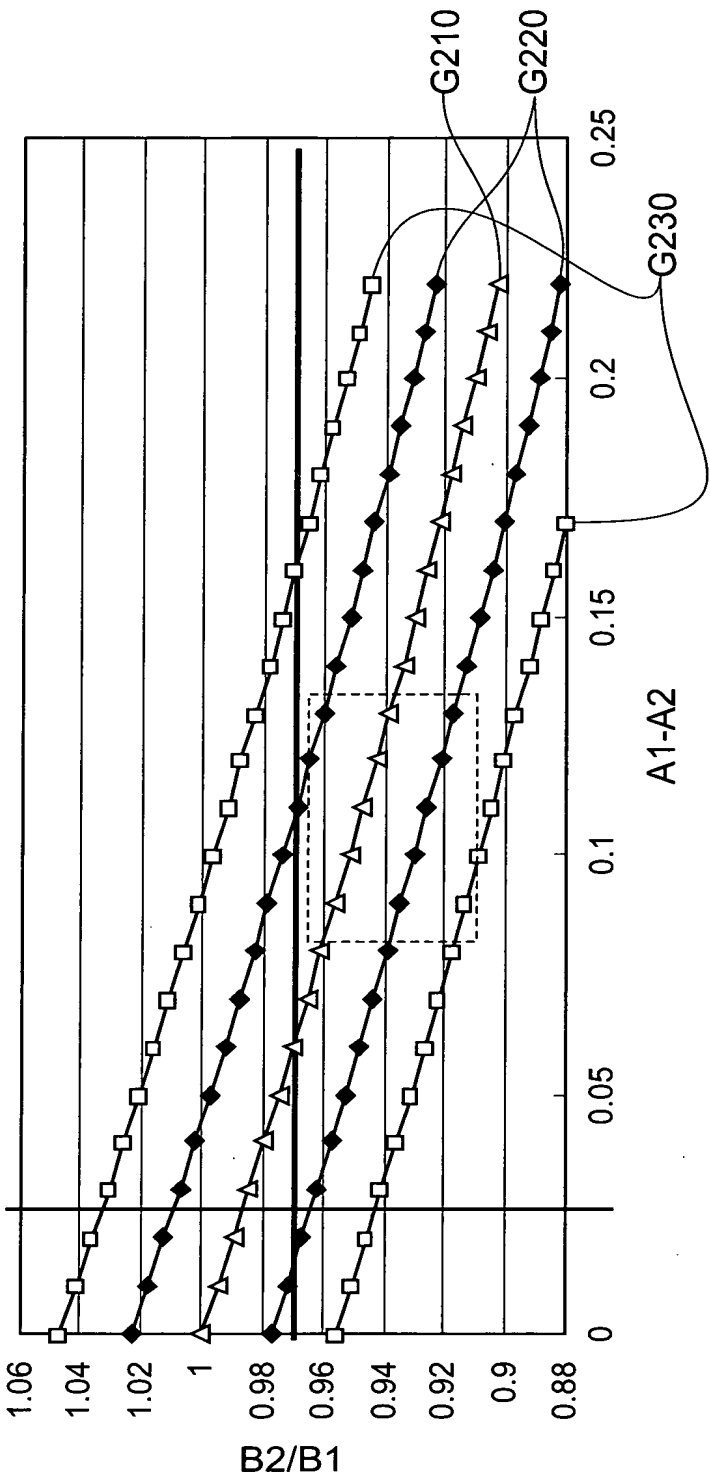
**Fig.1**

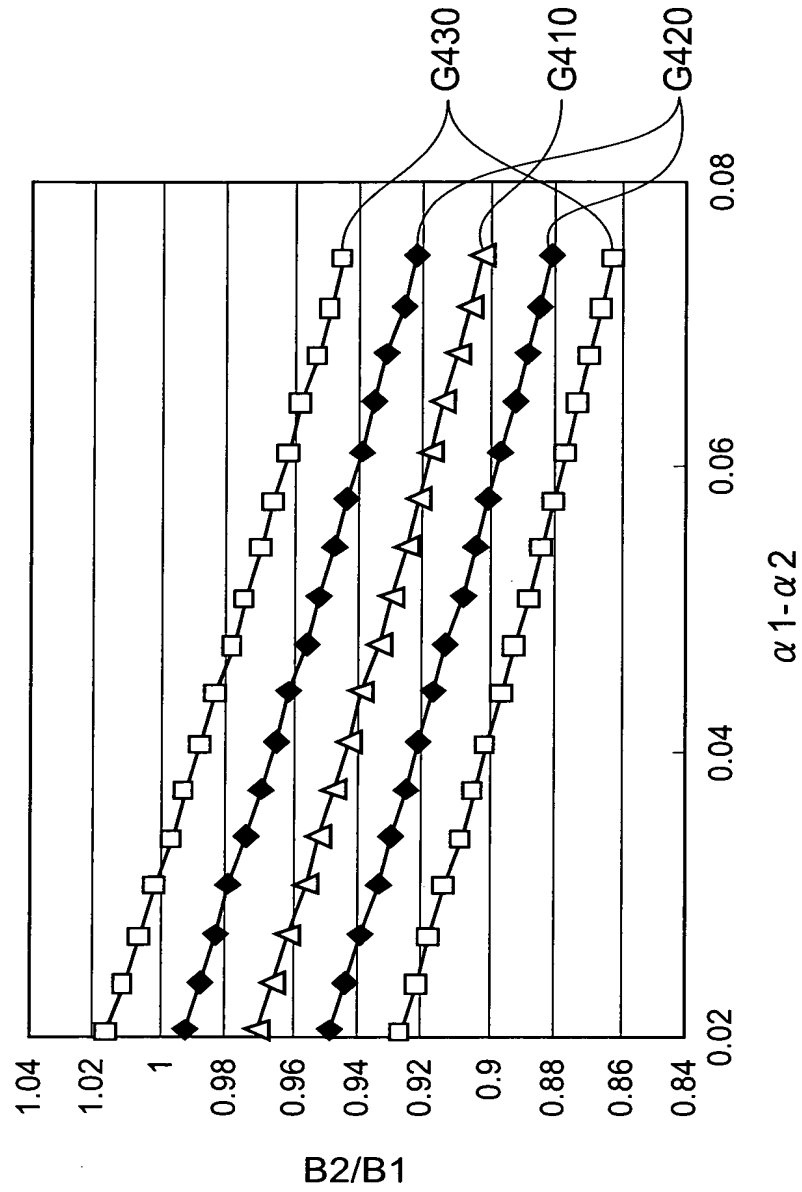
Fig.2



**Fig.3**

SAMPLE	A1 (dB/km $\cdot\mu$ m <sup>4</sup> )	A2 (dB/km $\cdot\mu$ m <sup>4</sup> )	A1--A2 (dB/km $\cdot\mu$ m <sup>4</sup> )	B1 ( $\mu$ m)	B2 ( $\mu$ m)	B2/B1	K-VALUE (dB)
1	1.07	0.94	0.13	10.35	10.10	0.98	0.17
2	0.94	0.87	0.07	10.35	10.10	0.95	0.06
3	1.12	0.94	0.18	10.35	9.80	0.95	0.14
4	1.10	0.94	0.16	10.35	9.60	0.93	0.01
5	1.13	0.94	0.19	10.35	9.80	0.95	0.15
6	0.98	0.87	0.11	10.40	9.80	0.94	0.01
SAMPLE	A1 (dB/km $\cdot\mu$ m <sup>4</sup> )	A2 (dB/km $\cdot\mu$ m <sup>4</sup> )	A1--A2 (dB/km $\cdot\mu$ m <sup>4</sup> )	B1 ( $\mu$ m)	B2 ( $\mu$ m)	B2/B1	ERROR OF MEASUREMEMENT (dB)
7	1.06	0.94	0.12	10.35	10.21	0.98	0.19
8	0.92	0.87	0.05	10.35	10.10	0.95	0.01
9	1.10	0.94	0.16	10.35	10.03	0.97	0.19
10	1.07	0.94	0.13	10.35	9.93	0.96	0.09
11	1.11	0.94	0.17	10.35	9.99	0.97	0.20
12	1.08	0.94	0.14	10.35	9.89	0.96	0.09

**Fig.4**

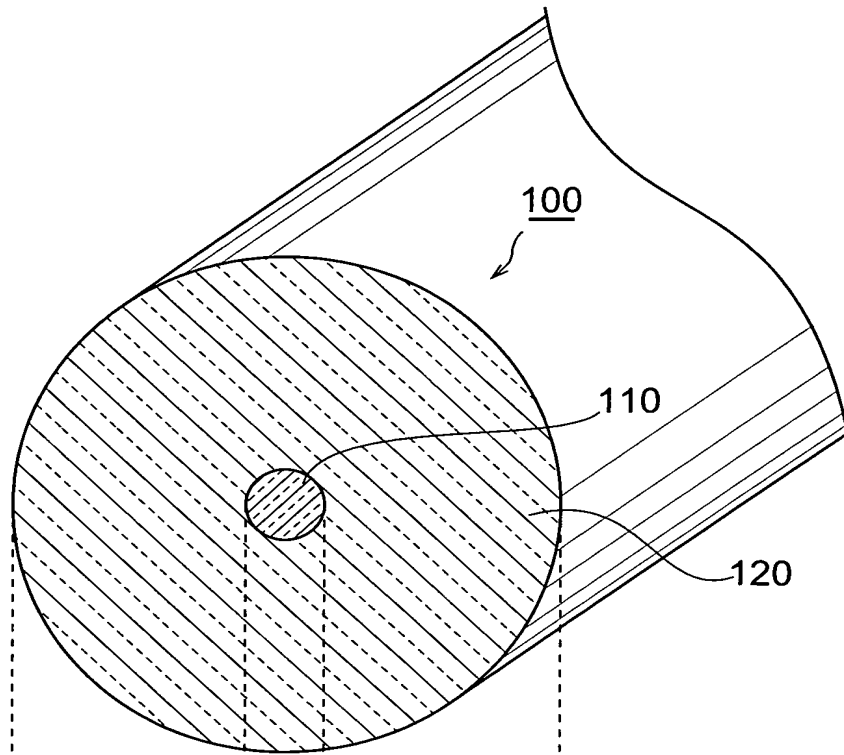


**Fig.5**

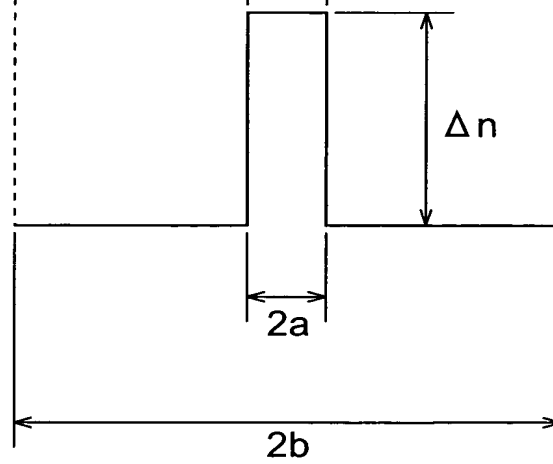
SAMPLE	$\alpha_1$ (dB/km)	$\alpha_2$ (dB/km)	$\alpha_1 - \alpha_2$ (dB/km)	B1 ( $\mu\text{m}$ )	B2 ( $\mu\text{m}$ )	B2/B1	K-VALUE (dB)
13	0.325	0.305	0.020	9.13	8.61	0.94	0.11
14	0.339	0.309	0.031	8.95	8.55	0.96	0.01
15	0.339	0.307	0.032	9.20	8.40	0.91	0.17
16	0.353	0.315	0.037	9.13	8.61	0.94	0.01
SAMPLE	$\alpha_1$ (dB/km)	$\alpha_2$ (dB/km)	$\alpha_1 - \alpha_2$ (dB/km)	B1 ( $\mu\text{m}$ )	B2 ( $\mu\text{m}$ )	B2/B1	ERROR OF MEASUREMEMENT (dB)
17	0.339	0.317	0.022	9.20	8.50	0.92	0.19
18	0.339	0.315	0.024	9.15	8.65	0.95	0.08
19	0.339	0.314	0.025	9.10	8.40	0.92	0.17
20	0.339	0.312	0.027	9.05	8.60	0.95	0.04

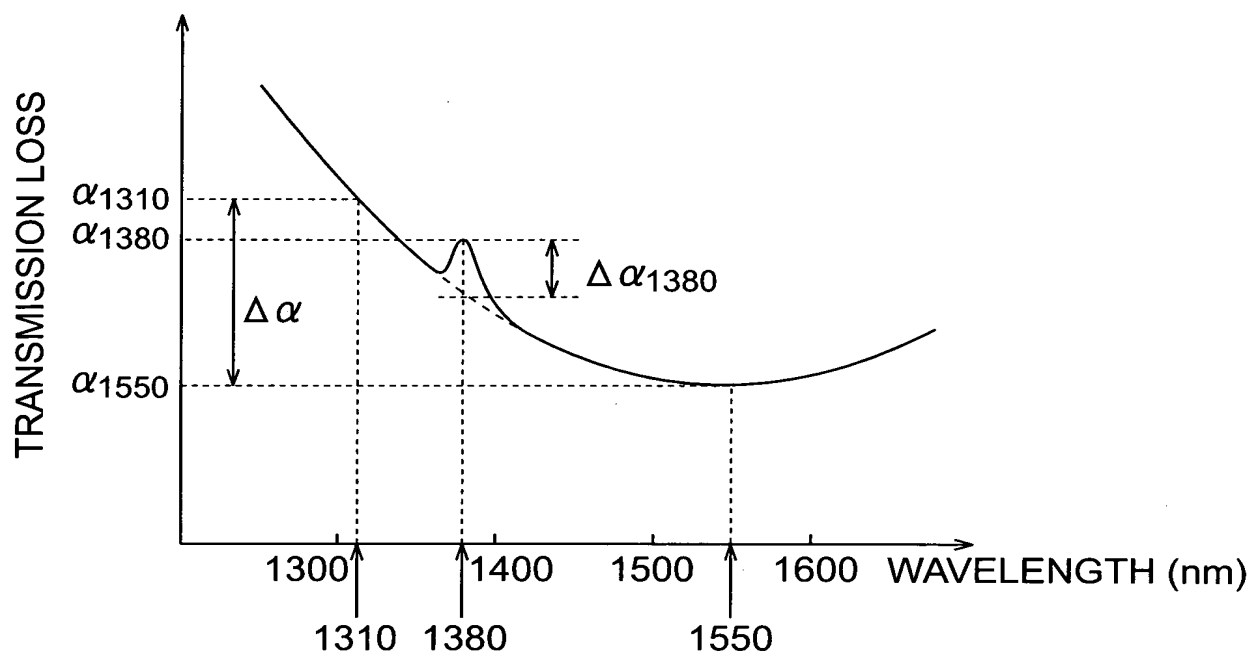
**Fig.6**

(a)



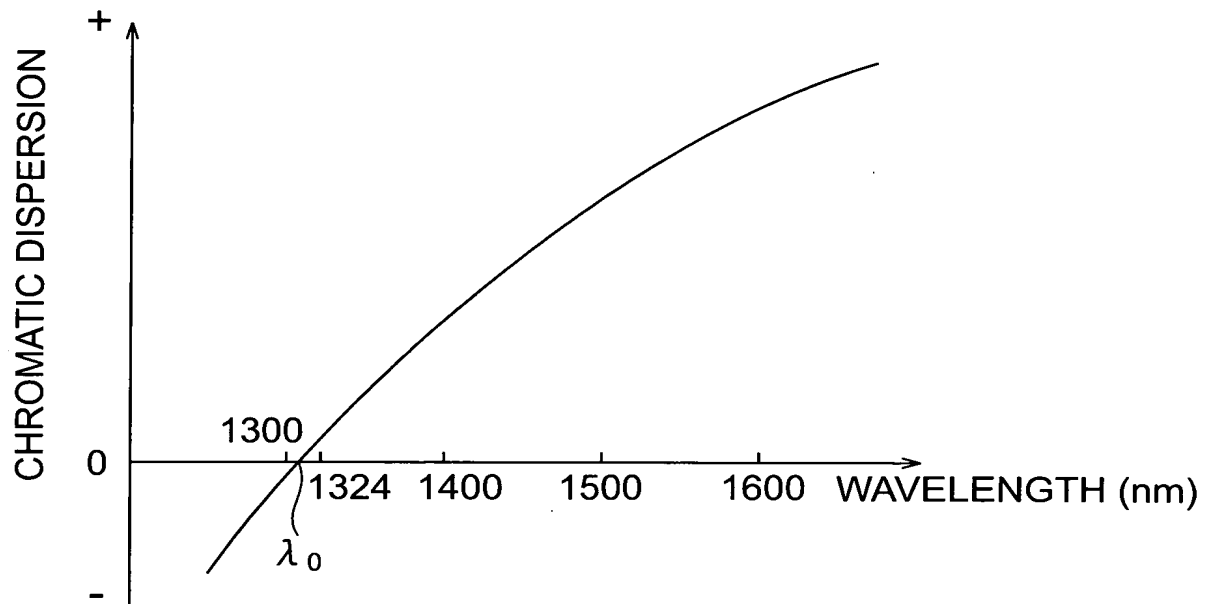
(b)



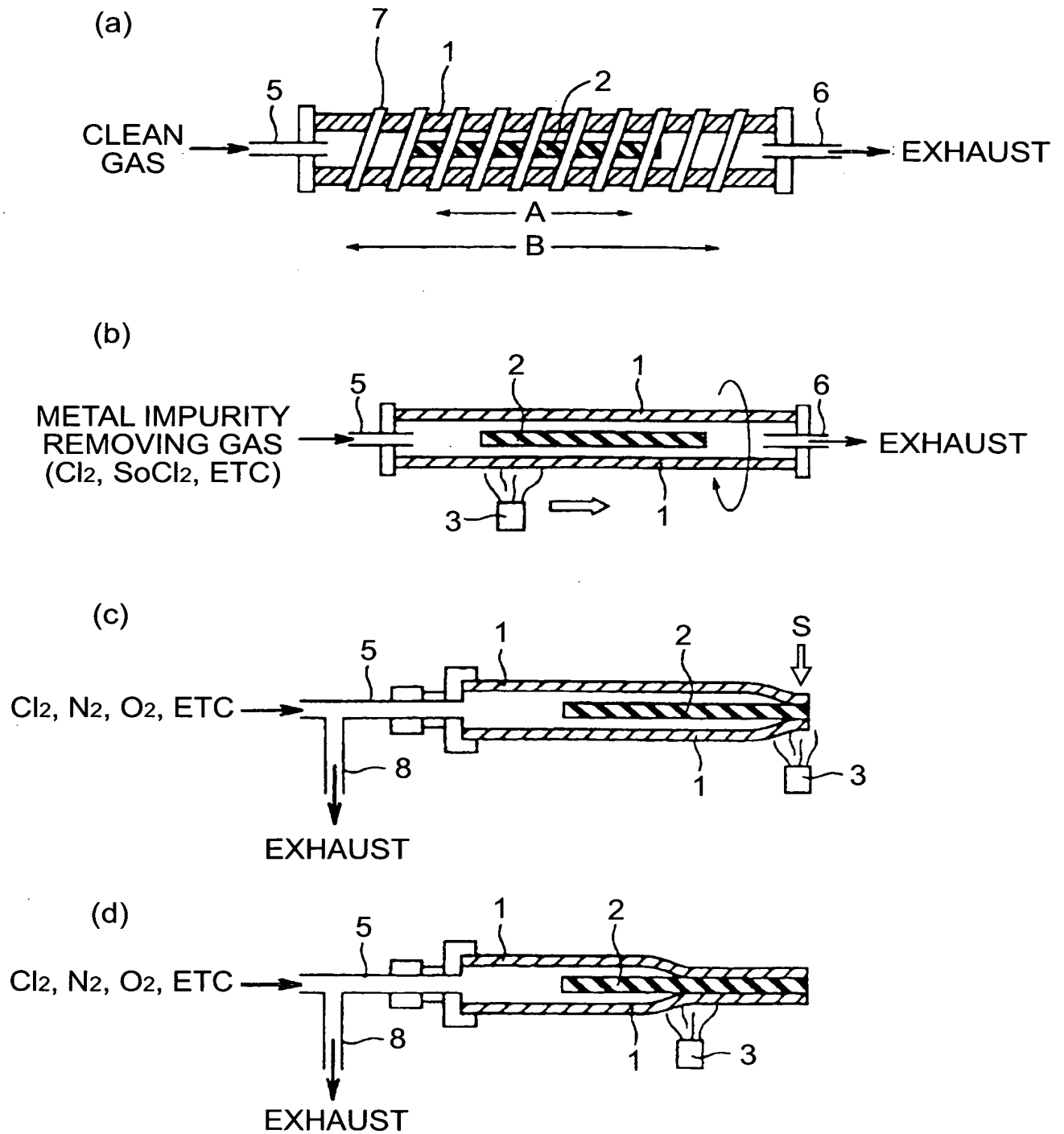
**Fig.7**

FP04-0298-00

8/15

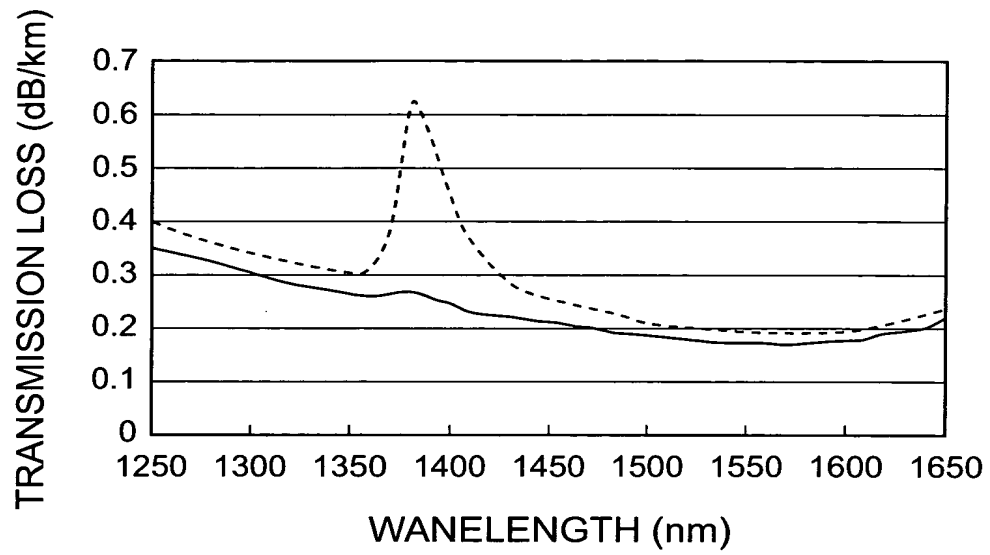
**Fig.8**



**Fig.9**

**Fig.10**

	SAMPLE A	COMPARATIVE EXAMPLE A
TRANSMISSION LOSS $\alpha_{1310}$ (dB/km)	0 . 29	0 . 33
TRANSMISSION LOSS $\alpha_{1380}$ (dB/km)	0 . 27	0 . 62
TRANSMISSION LOSS $\alpha_{1550}$ (dB/km)	0 . 17	0 . 19
LOSS DIFFERENCE $\Delta \alpha (= \alpha_{1550} - \alpha_{1310})$ (dB/km)	0 . 12	0 . 14
OH-RELATED LOSS INCREASE $\Delta \alpha_{1380}$ (dB/km)	0 . 03	0 . 31
CABLE CUTOFF WAVELENGTH (nm)	1220	
ZERO DISPERSION WAVELENGTH (nm)	1310	
MODE FIELD DIAMETER (AT WAVELENGTH OF 1550nm) ( $\mu$ m)	9 . 7	
BENDING LOSS (AT WAVELENGTH OF 1550nm AND IN BENDING DIAMETER OF 20mm) (dB/m)	2	

**Fig.11**

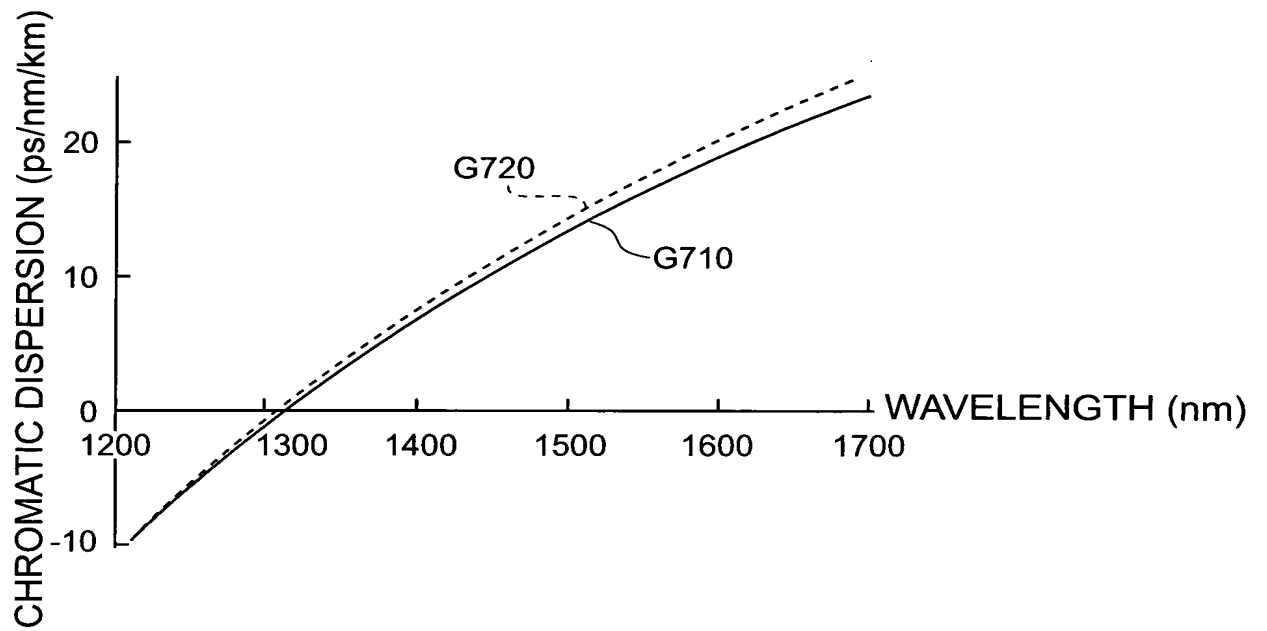
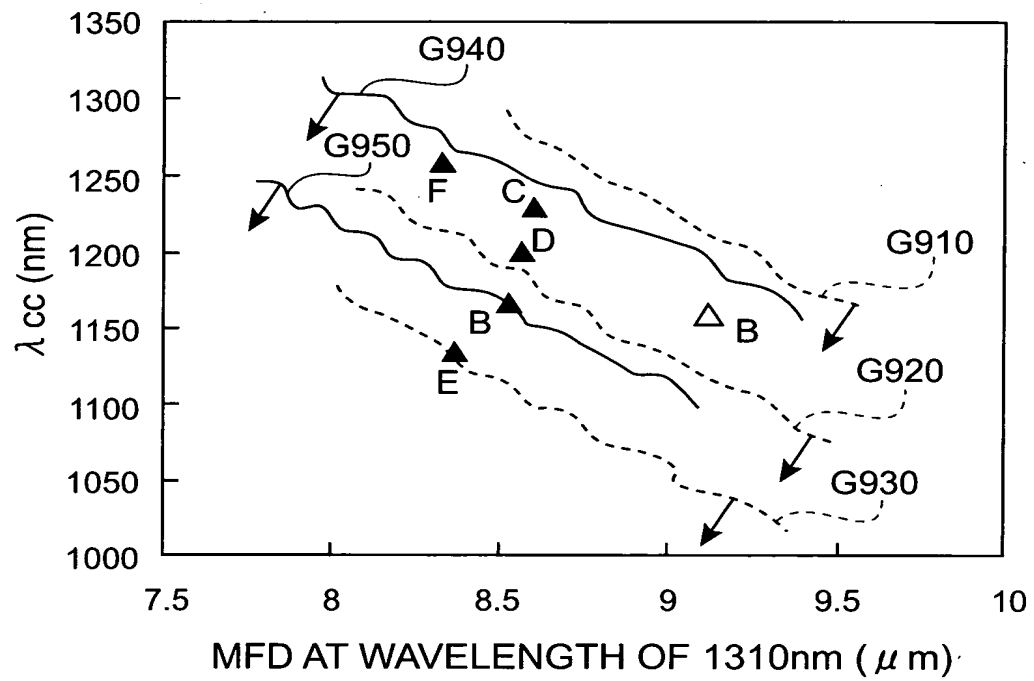
**Fig.12**

Fig.13

	$\Delta n$	2a	(%)	( $\mu m$ )	CABLE CUTOFF WAVELENGTH (nm)	MFD AT WAVELENGTH OF 1310 nm ( $\mu m$ )	ZERO DISPERSION WAVELENGTH (nm)	CHROMATIC DISPERSION AT WAVELENGTH OF 1550 nm (ps/nm/km)	DISPERSION SLOPE AT WAVELENGTH OF 1550 nm (ps/nm <sup>2</sup> /km)	ZERO DISPERSION SLOPE (ps/nm <sup>2</sup> /km)	TRANSMISSION LOSS AT WAVELENGTH OF 1310 nm (dB/km)	TRANSMISSION LOSS INCREASE AT WAVELENGTH OF 1380 nm (dB/km)	TRANSMISSION LOSS AT WAVELENGTH OF 1550 nm (dB/km)	FIBER STRUCTURE (CORE MATERIAL /CLADDING MATERIAL)
SAMPLE A	0.38	7.80		1166	8.53	1318	14.97	0.0540	0.0793					PURE SILICA GLASS /F-DOPED GLASS
SAMPLE C	0.935	8.16		1230	8.06	1313	15.46	0.0544	0.0806					
SAMPLE D	0.39	8.02		1200	8.57	1313	15.39	0.0537	0.0801					
SAMPLE E	0.395	7.56		1135	8.37	1318	14.86	0.0531	0.0789					
SAMPLE F	0.42	7.60		1260	8.33	1307	15.75	0.0536	0.0816					
SAMPLE G	0.385	8.14		1184	8.72	1312	15.90	0.0547	0.0800					
SAMPLE H	0.38	8.52		1226	8.92	1304	16.66	0.0548	0.0819					
SAMPLE B	0.36	8.10		1133	8.92	1317	15.39	0.0544	0.0790					
COMPARATIVE EXAMPLE B	-	-		1158	9.13	1316	16.50	0.0584	0.0850	0.33	0.62	0.31	0.19	Ge-DOPED GLASS /PURE SILICA GLASS

**Fig.14**

**Fig.15**